



## L1 C/A PRN CODE ASSIGNMENTS

PRN Signal Number	G2 Delay (Chips)	Initial G2 Setting (Octal) <sup>i</sup>	First 10 Chips (Octal) <sup>i</sup>	PRN Allocations	Orbital Slot	Effective Date
1 – 63	See IS-GPS-200 <sup>ii</sup>	See IS-GPS-200 <sup>ii</sup>	See IS-GPS-200 <sup>ii</sup>	Reserved for GPS	See NAVCEN <sup>iii</sup>	See NAVCEN <sup>iii</sup>
64 – 119	See IS-GPS-200 <sup>ii</sup>	See IS-GPS-200 <sup>ii</sup>	See IS-GPS-200 <sup>ii</sup>	Reserved for GBAS & other augmentation systems	N/A	Current
120 – 138	See Below	See Below	See Below	Reserved for SBAS	See Below	<b>Updated</b>
139 – 158	See Below	See Below	See Below	Reserved for SBAS	See Below	<b>Updated</b>
159 – 210	See Below	See Below	See Below	Reserved for other GNSS & other applications	See Below	Current
<b>Reserved for Satellite-Based Augmentation System (SBAS) (PRNs 120-138)</b>						
120	145	1106	0671	EGNOS (INMARSAT 3F2)	15.5 W	Current
121	175	1241	0536	EGNOS (INMARSAT 3F5)	25 E	<b>Expired 5/12</b>
121	175	1241	0536	<b>Unallocated</b>	---	---
122	52	0267	1510	(INMARSAT 3F4, AOR-W)	53 W	<b>Expired 5/12</b>
122	52	0267	1510	<b>Unallocated</b>	---	---
123	21	0232	1545	Unallocated	---	---
123	21	0232	1545	<b>EGNOS (ASTRA 5B)</b>	<b>31.5E</b>	<b>Active 11/11</b>
124	237	1617	0160	EGNOS (ARTEMIS)	21.5 E	Current
125	235	1076	0701	Unallocated	---	---
125	235	1076	0701	<b>SDCM (Luch-5A)</b>	<b>16 W</b>	<b>Active 12/11</b>
126	886	1764	0013	EGNOS (INMARSAT 4F2)	25 E	Active 4/09
127	657	0717	1060	GAGAN (GSAT-10)	55 E	Active 9/10
127	657	0717	1060	GAGAN ( <b>GSAT-8</b> )	55 E	Active 9/10
128	634	1532	0245	GAGAN (GSAT-8)	83 E	Active 9/10
128	634	1532	0245	GAGAN ( <b>GSAT-10</b> )	83 E	Active 9/10
129	762	1250	0527	MSAS (MTSAT-1R or -2) <sup>iv</sup>	140 E	Current
130	355	0341	1436	(INMARSAT 4F1, APAC)	142.5 E	<b>Expired 5/12</b>
130	355	0341	1436	<b>Unallocated</b>	---	---
131	1012	0551	1226	EGNOS (INMARSAT 3F1)	64 E	<b>Expired 5/12</b>
131	1012	0551	1226	<b>Unallocated</b>	---	---
132	176	0520	1257	Unallocated	---	---
133	603	1731	0046	WAAS (INMARSAT 4F3)	98 W	Active 10/09

 Previous assignments

 New assignments
Changes shown in **bold**

System name (Satellite name)

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PRN Signal Number	G2 Delay (Chips)	Initial G2 Setting (Octal) <sup>i</sup>	First 10 Chips (Octal) <sup>i</sup>	PRN Allocations	Orbital Slot	Effective Date
134	130	0706	1071	(INMARSAT 3F3)	178 E	<b>Expired 5/12</b>
134	130	0706	1071	<b>WAAS (Reserved)</b>	---	---
135	359	1216	0561	WAAS (LM RPS-1)	133 W	Current
136	595	0740	1037	INMARSAT (Reserved)	8 E	<b>Expired 11/11</b>
136	595	0740	1037	<b>EGNOS (SES 5)</b>	<b>5 E</b>	<b>Active 11/11</b>
137	68	1007	0770	MSAS (MTSAT-2 or -1R) <sup>iv</sup>	145 E	Current
138	386	0450	1327	WAAS (LM RPS-2)	107.3	Current
<b>Reserved for SBAS (PRNs 139 – 158)</b>						
139	797	0305	1472	Unallocated	---	<b>Expired 5/12</b>
139	797	0305	1472	<b>GAGAN (Reserved)</b>	---	---
140	456	1653	0124	Unallocated	---	---
140	456	1653	0124	<b>SDCM (Luch-5B)</b>	<b>95 E</b>	<b>Active 12/11</b>
141	499	1411	0366	Unallocated	---	---
141	499	1411	0366	<b>SDCM (Luch-4)</b>	<b>167 E</b>	<b>Active 12/11</b>
142	883	1644	0133	Unallocated	---	---
143	307	1312	0465	Unallocated	---	---
144	127	1060	0717	Unallocated	---	---
145	211	1560	0217	Unallocated	---	---
146	121	0035	1742	Unallocated	---	---
147	118	0355	1422	Unallocated	---	---
148	163	0335	1442	Unallocated	---	---
149	628	1254	0523	Unallocated	---	---
150	853	1041	0736	Unallocated	---	---
151	484	0142	1635	Unallocated	---	---
152	289	1641	0136	Unallocated	---	---
153	811	1504	0273	Unallocated	---	---
154	202	0751	1026	Unallocated	---	---
155	1021	1774	0003	Unallocated	---	---
156	463	0107	1670	Unallocated	---	---
157	568	1153	0624	Unallocated	---	---
158	904	1542	0235	NIGCOMSAT-1G	42.5 E	Active 10/10

 Previous assignments

 New assignments
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System name (Satellite name)

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## L1 C/A PRN CODE ASSIGNMENTS

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<b>Other Global Navigation Satellite Systems (GNSS) &amp; Other Applications (PRNs 159 – 210)</b>						
159	670	1223	0554	Unallocated	---	---
160	230	1702	0075	Unallocated	---	---
161	911	0436	1341	Unallocated	---	---
162	684	1735	0042	Unallocated	---	---
163	309	1662	0115	Unallocated	---	---
164	644	1570	0207	Unallocated	---	---
165	932	1573	0204	Unallocated	---	---
166	12	0201	1576	Unallocated	---	---
167	314	0635	1142	Unallocated	---	---
168	891	1737	0040	Unallocated	---	---
169	212	1670	0107	Unallocated	---	---
170	185	0134	1643	Unallocated	---	---
171	675	1224	0553	Unallocated	---	---
172	503	1460	0317	Unallocated	---	---
173	150	1362	0415	QZSS – IMES <sup>v</sup>	Ground	Current
174	395	1654	0123	QZSS – IMES <sup>v</sup>	Ground	Current
175	345	0510	1267	QZSS – IMES <sup>v</sup>	Ground	Current
176	846	0242	1535	QZSS – IMES <sup>v</sup>	Ground	Current
177	798	1142	0635	QZSS – IMES <sup>v</sup>	Ground	Current
178	992	1017	0760	QZSS – IMES <sup>v</sup>	Ground	Current
179	357	1070	0707	QZSS – IMES <sup>v</sup>	Ground	Current
180	995	0501	1276	QZSS – IMES <sup>v</sup>	Ground	Current
181	877	0455	1322	QZSS – IMES <sup>v</sup>	Ground	Current
182	112	1566	0211	QZSS – IMES <sup>v</sup>	Ground	Current
183	144	0215	1562	QZSS (QZS1)	A1 <sup>vi</sup>	Current
184	476	1003	0774	QZSS (Reserved)	TBD	---
185	193	1454	0323	QZSS (Reserved)	TBD	---
186	109	1665	0112	QZSS (Reserved)	TBD	---
187	445	0471	1306	QZSS (Reserved)	TBD	---
188	291	1750	0027	QZSS (Reserved)	TBD	---
189	87	0307	1470	QZSS (Reserved)	TBD	---

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190	399	0272	1505	QZSS (Reserved)	TBD	---
191	292	0764	1013	QZSS (Reserved)	TBD	---
192	901	1422	0355	QZSS (Reserved)	TBD	---
193	339	1050	0727	QZSS (QZS1)	A1 <sup>vi</sup>	Current
194	208	1607	0170	QZSS (Reserved)	TBD	---
195	711	1747	0030	QZSS (Reserved)	TBD	---
196	189	1305	0472	QZSS (Reserved)	TBD	---
197	263	0540	1237	QZSS (Reserved)	TBD	---
198	537	1363	0414	QZSS (Reserved)	TBD	---
199	663	0727	1050	QZSS (Reserved)	TBD	---
200	942	0147	1630	QZSS (Reserved)	TBD	---
201	173	1206	0571	QZSS (Reserved)	TBD	---
202	900	1045	0732	QZSS (Reserved)	TBD	---
203	30	0476	1301	Unallocated	---	---
204	500	0604	1173	Unallocated	---	---
205	935	1757	0020	Unallocated	---	---
206	556	1330	0447	Unallocated	---	---
207	373	0663	1114	Unallocated	---	---
208	85	1436	0341	Unallocated	---	---
209	652	0753	1024	Unallocated	---	---
210	310	0731	1046	Unallocated	---	---

**Abbreviations:**

EGNOS – European Geostationary Navigation Overlay Service

GAGAN – GPS-Aided Geo-Augmented Navigation

GBAS – Ground-Based Augmentation System

IMES – Indoor Messaging System

MSAS – MTSAT Space-Based Augmentation System

PRN – Pseudorandom Noise

QZSS – Quazi-Zenith Satellite System

SDCM – System of Differential Correction and Monitoring

TBD – To Be Determined

## L1 C/A PRN CODE ASSIGNMENTS

<sup>i</sup> In the octal notation for the first 10 bits as shown in this column, the first digit (1/0) represents the first bit and the last three digits are the conventional octal representation of the remaining 9 bits.

<sup>ii</sup> For further information see the latest edition of IS-GPS-200 at <http://gps.gov/technical/icwg/>.

<sup>iii</sup> For current PRN assignments and orbital information for GPS satellites please see the Navigation Center website at <http://www.navcen.uscg.gov/?Do=constellationStatus>.

<sup>iv</sup> When MTSAT-2 is unavailable, MTSAT-1R will broadcast two PRN signals-each of which is received from an independent uplink station-in order to maintain continuity in case of uplink signal attenuation or equipment failure at either uplink station. Similarly, MTSAT-2 will broadcast two PRN signals when MTSAT-1R is unavailable. When MTSAT-1R and MTSAT-2 are available, MTSAT-1R will broadcast PRN 129 signal only and MTSAT-2 will broadcast PRN 137 signal only.

<sup>v</sup> This PRN number is designated solely for low-power terrestrial regional applications within Japan.

<sup>vi</sup> A1 => RAAN = 0, Argument of Perigee = 270, Mean Anomaly = 324, at Epoch 31Dec 07 00:00:00.